

TESLA OIL SPECIFICATION
SIZE 1 K. W.
TO ACCOMPANY PRINTS NOS. 1001 and 1002

Refer to Prints for Details of Assembly.

No metal should be used in the construction of the wooden drums, etc. Clear Whitewood, (soft Pine best) kiln dried, heavily shellaced or boiled in paraffine should be used.

After Fig. 1 is assembled and thoroughly dried, cover the frame work with several layers of stiff paper. Coat each layer with shellac and allow to dry thoroughly.

Wind over the above one layer of No. 24 wire, spacing between turns equal to a string or spacing wire of No. 24 gauge. If spacing wire is used, remove same after winding is complete. Give heavy coat of shellac.

Fig. 2 is the primary winding drum. Wind on this form ten turns of No. 4 bare wire. Copper, brass or aluminum may be used. The turn should be one inch apart.

Fig. 3 is the insulating tube. This should be made of paraffined or oiled paper, wound on form as called for in Print. There is a space of about $1\frac{1}{2}$ " between primary and secondary into which this insulating tube is wedged.

OPERATION

- 1st - Adjust number of turns of primary until maximum spark is obtained.
- 2nd - Adjust condenser to obtain maximum spark.
- 3rd - Adjust high potential transformer, condenser, primary of Tesla Coil and spark gap until the maximum spark is obtained.

With proper adjustment a 36 inch spark can be obtained. A 30 inch flame is thick, very noisy and exceedingly pretty. The brush discharge is heavy and gorgeous.

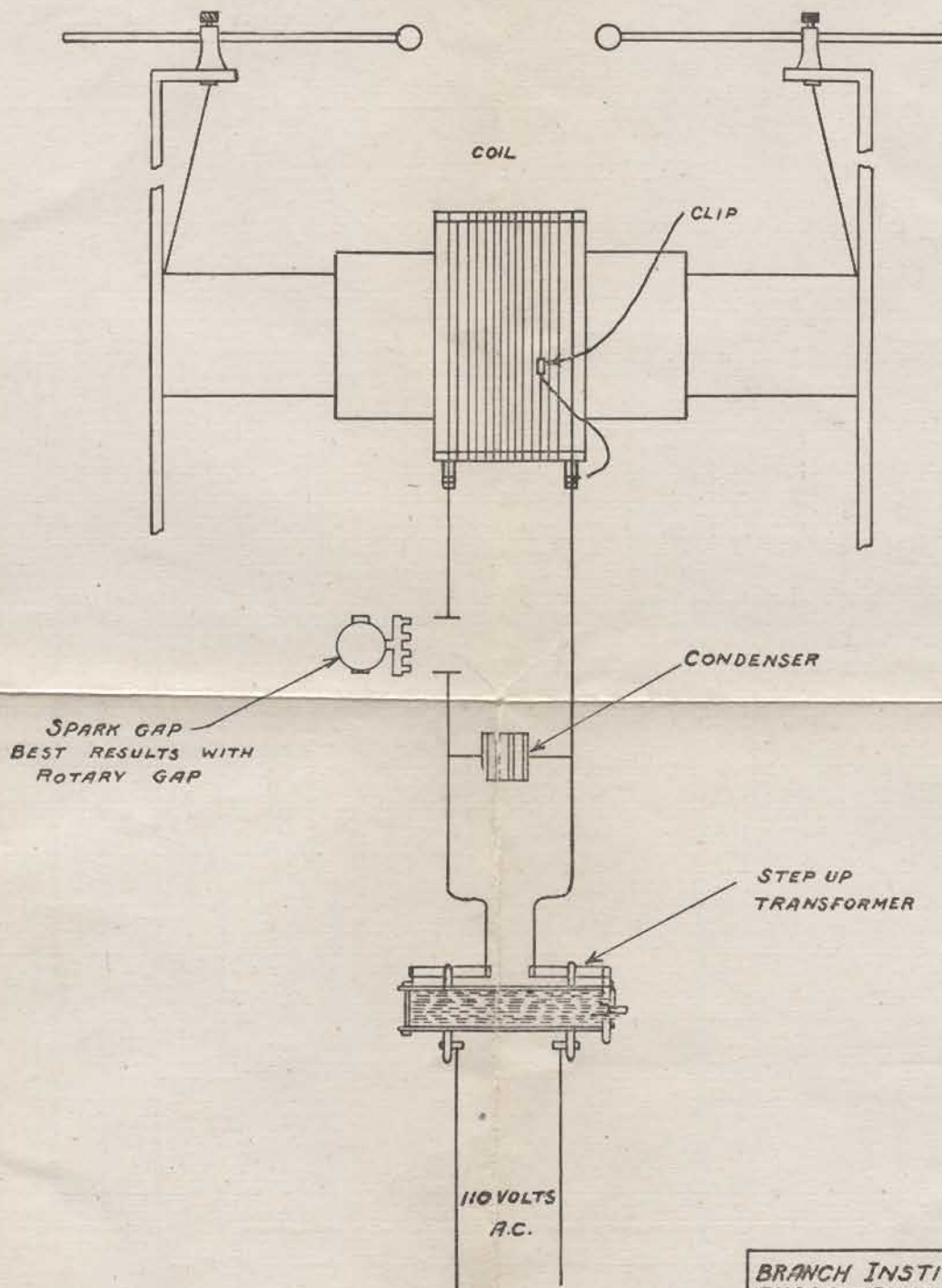
A complete 1 K. W. HIGH FREQUENCY OUTFIT consists of a 1 K. W. Tesla Coil, a 1 K. W. Spark Gap, a 1 K. W. Condenser and a 1 K. W. Transformer. We furnish the above OUTFIT complete, ready to connect to any 110 volt a.c. 60 cycle circuit, price, net, \$150.00, express prepaid.

We also furnish complete $\frac{1}{4}$ K. W. Outfits; flame nine inches; price, net, \$53.25, express prepaid. 110 volt a.c. 60 cycle circuit.

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BRANCH INSTITUTE OF
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WIRING CIRCUIT FOR
HIGH FREQUENCY
TESLA COIL
DRAWN BY M.K.

No. 1001

